prerequisite, required before taking Physics. Students should consider taking this course in the summer after their first or second year.

- College Algebra is a hidden
- overall GPA of 2.0 AND a 2.5 GPA as a Marine Biology major.
- To graduate, students must have an
- **Proficiency requirement.**
- course sequences. Some of the major foundational courses are offered only once per year. Don't neglect your Language

Pay attention to prerequisites and

Additional Info

Department Contact: 956-882-5040

Leticia Contreras

Leticia.contreras01@utrgv.edu

Marine Biology Coordinator



MARINE BIOLOGY (BS)

Catalog: 2017-18 ******

COLLEGE OF SCIENCES

UTRio Grande Valley

Degree Info

The School of Earth, Environmental, and Marine

Sciences offers a B.S. in Marine Biology, which is

designed to prepare students who are seeking a career

or graduate studies in marine biology and related

marine science disciplines. Undergraduates in this

major will develop an understanding of the biology of

marine organisms and the biological and physical

processes that affect these organisms, their

populations, and their coastal and oceanic ecosystems.

The curriculum takes full advantage of the Rio Grande Valley's unique physical location at the intersection of

temperate and tropical climatic divides, and proximity

to the Gulf of Mexico. Unifying laboratory/field courses

with the unique environments of South Texas directly

engage students in the discovery process and in

analyzing and interpreting data. The Marine Biology

program requires 120 hours of coursework including a

major-specific marine biology core and supporting

courses aimed at interrelating the principles of physics,

geology and geophysics, mathematics, chemistry, and biology to the marine environment. Upper-level

electives include Coral Reef Ecology, Marine Zoology, Ichthyology, Marine Animal Field Studies, as well as supervised independent research courses.

FOURTH YEAR

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BIOL 3412 Cell Biology	
BIOL 3415 Molecular Biology <u>or</u>	T asood

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Biology Major Advanced Elective Marine Biology Elective Marine Biology Elective 33XX-43XX

34XX-44XX 33XX-43XX

Marine Biology Elective Marine Biology Seminar

Integrative/Experiential Learning Choose 1 Marine Biology Elective 34XX-44XX 33XX-43XX **MARS 4401**

THIRD YEAR

Contact Info

Director- School of Earth.

Environmental. and Marine Sciences

Dr. David Hicks

David.Hicks@utrgv.edu

Associate Director- School of Earth,

Environmental, and Marine Sciences

Dr. Hudson DeYoe

Hudson.Deyoe@utrgv.edu

Introduction to Biostatistics

Research Problems in Marine Biology

Oceanography

General Physics I

Biological Evolution

Organic Chemistry II

FCOIOgy

Marine Biogeochemistry

Marine Biology Elective

Organic Chemistry II Lab

MARS 4199

ENNB 3405

MARS 3320

PHYS 1401

BIOF 3301

34XX-44XX

CHEM 5152

CHEM 5352

EAET HTAM

BIOF 3409

2018-2019 ACADEMIC PLAN

SECOND YEAR

General Chemistry II Lab CHEM 1115 General Chemistry II CHEM 1315

Marine Processes and Ecosystem Dynamics **MARS 2310**

Philosophy & History of Science & Tech. PHIL 1366 American History Choose 1

Social and Behavioral Sciences Choose 1

Organic Chemistry I **CHEW 7373**

Genetics **BIOF 3413** Organic Chemistry I Lab **CHEW 5153**

Integrative/Experiential Learning Choose 1 American History Choose 1

"Choose 1" Indicates course options. If options are not listed, please review the 2018-19 General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans.

RIRST YEAR

Communication Learning Framework **UNIV 1301** Government/Political Science Choose 1 Creative Arts Choose 1 College Algebra **ALEL HTAM** General Biology I **BIOL 1406** Communication Choose 1

Government/Political Science Choose 1 General Chemistry I Lab CHEW 1111 General Chemistry I **CHEW 1311** General Biology II BIOL 1407 Choose 1

Courses in red are part of the General Education Core Curriculum (GEC).

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND	CAREE
MILESTONES	 □ UTRGV has a Writing Center and a Learning Center. Make it a point to visit them! □ Complete your core English classes (section 010) during your first year. □ Complete 30 credit hours every year in order to graduate in 4 years. □ Aim for a GPA of 2.5. □ Take MATH 1343 in your first year. 	 □ Aim for a GPA of 2.5. □ Complete major foundation classes, such as MARS 2310 and BIOL 3413. □ Complete 30 credit hours. 	 □ Aim for a GPA of 2.5. □ Complete 30 credit hours, including major foundation classes, such as BIOL 3409, MARS 3320, BIOL 3301, and ENVR 3405. □ Have you landed an internship or acquired research experience? This is the year to make it happen. 	 □ Aim for a GPA of 2.5. □ "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center! □ Register for your Senior Seminar course: MARS 4401. □ Complete at least 30 credit hours to graduate, including major foundations classes MARS 3430 and BIOL 3412 or BIOL 3415. □ Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment. 	 Marine Biology/Biolo Oceanograph Ecology and of Conservation Consulting Environment protection/Ro
ADVICE & SUPPORT	 Meet with your academic advisor and bring your orientation folder with you to every session! Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors. Visit a faculty member during their office hours and ask a question about class. 	 □ Want to explore different careers? Check out MyMajors! □ Come ready with course suggestions and questions when you visit your academic advisor. □ Visit the Communication Hauser Lab for help with your speeches. 	 Seek out research opportunities within your major and join a professional organization such as The American Fisheries Society or the Oceanography Society. Check DegreeWorks to make sure you are on track for graduation next year. 	 Engage in an independent study project or an academic internship to complement your major, such as the Texas Parks and Wildlife Department, Sea Turtle, Inc., or the National Oceanographic and Atmospheric Administration. Discuss future plans with your faculty mentor or advisor that includes employment, finances, and other life goals. 	Environment remediation/ComplianceFisheries mai
	 Classes fill up fast. When registration opens, be sure to register on the first day for your group. Cold or flu getting you down? We have Student Health Services on campus with free office visits. 	Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available	☐ Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center.	☐ Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track.	Marine bioteMolecular bioMarine policyMariculture/ Aquaculture
APPLY WHAT YOU LEARN	 Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office. Participate in a campus-sponsored community service project. Ask a student in class to study with you. 	 □ To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. □ Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium. 	☐ Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! ☐ Sharpen your writing skills! Visit the Writing Center or become the secretary for your organization.	 Continue to present research or creative works at the Engaged Scholar Symposium or at the College of Sciences Annual Conference. Set up an informational interview with an individual (especially an alumnus or alumna) currently in the field you aspire to work in. 	Hatchery open managementAquarium op management
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	 □ Set up your profile on the Engagement Zone through My.UTRGV.edu. □ Attend a diversity based campus or community event (e.g. MLK Day of Service, Earth Day, or Beach Clean-up). □ Attend a departmental program such as an OCES graduate student thesis defense. □ Join a student organization! Consider looking into Gorgas Science Society or visit VLink (utrgv.edu/vlink) for options. 	 □ Look at study abroad opportunities! Consider going to Belize to study Coral Reef Ecology! □ Check out a cultural campus or community event such as HESTEC or FESTIBA. □ Join another student organization. Perhaps the Environmental Awareness Club or the American Association of University Women in STEM or visit VLink for options. □ Check out a campus event that offers free lunchbring a friend! 	□ Consider serving on a campus life/community committee or become a student leader and make a difference. Visit VLink or speak with your Student Government Association for more information! □ Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.	 Identify employers of interest and seek them out at job fairs, online, at on-campus information sessions, staffing agencies, etc. The Career Center can help. Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab. 	 Natural resoumanagement Technical wri Wildlife mana Research Coastal/Wetherstoration
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Career Connection icon: (My.UTRGV.edu). Got summer plans? Visit Career Center and ask about places to do some job shadowing. Research shows that students who work on campus perform better than those who work off campus. Look for a job on the Career Center portal! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	 □ Update your resume in Career Connection and have it reviewed. □ Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships. □ Explain to someone how your academic program aligns with your strengths and interests. 	 □ Check out the SEEMS website and the UTRGV Marine and Coastal Sciences Facebook page for postings on career/graduate school. □ Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice! □ When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants! 	 ☐ Have you received your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career Center, and get on LinkedIn. ☐ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc. ☐ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services! ☐ Remember to do your exit loan counseling on studentloans.gov. 	For additional inf Career Center we check out "Wha With This M www.utrgv.edu/c

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info, visit the website and hat Can I Do Major?" careercenter